Geometry Study Guide

1. Which figure is a rectangle? Circle all that apply.

a. b. c. d.

2. Circle all of the shapes that have 4 vertices:

3. Choose the answer that shows all of the possible names for the given shape.

a. quadrilateral, rectangle

b. quadrilateral, parallelogram, rhombus, rectangle, square

c. quadrilateral, trapezoid, square

d. quadrilateral, parallelogram, rhombus, square

4. Can square also be a rectangle? Why or why not?

5. Which two shapes appear to be congruent?

a. 1 and 2

b. 2 and 3

4

3

2

1

c. 1 and 3

d. 1 and 4

6. When section 1 is removed from the parallelogram shown, which of the following best describes the new figure?

1. Rectangle

3

2

1. Trapezoid
2. Rhombus
3. Triangle

1

7. Which of the following pairs of lines appear to be parallel?

a. Lines AB and CD

b. Lines AC and DF

c. Lines AC and BE

d. Lines BE and DE

8. Circle all of the polygons:

9. Name the transformation that is shown below:

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. What transformation could show that the two shapes are congruent?

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. Draw three different parallelograms:

|  |  |  |
| --- | --- | --- |
|  |  |  |

12. Which pair of figures appears to be congruent?

a. b. c. d.

13. Write the name of the given special lines.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. True or False?

These two shapes are congruent.

Use this word bank to answer questions 15-21:

Vertex Perpendicular lines Point Edge Angle

Ray Line Line segment Intersecting lines Parallel lines

15. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a straight path that extends forever in both

 directions.

16. Two lines or rays share an endpoint form a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

17. These lines never intersect: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

18. The point at which two lines or rays meet to form an angle is called a(n)

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

19. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a part of a line that has one endpoint and extends forever in one direction.

20. Two lines that cross to from right angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

21. A(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a part of a line that has two endpoints.

Use this word bank to answer questions 22-27:

Parallelogram Nonagon Heptagon Octagon

Hexagon Decagon Heptagon quadrilateral

22. This polygon has 9 sides: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

23. This polygon has two sets of parallel sides: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

24. This shape has 7 vertices: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

25. Square, rectangle, and trapezoid all share this name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

26. A polygon with 6 sides: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

27. A polygon with 10 vertices and 10 angles: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_